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翻學術譯文訣物

CLEARINGHOUSE
FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION
An agency of the U.S. Department of Commerce

April 30, 1965 Volume 13, Number 8

TECHNICAL TRANSLATIONS

Issued twice a month by the Clearinghouse for Federal Scientific and Technical Information in cooperation with the Special Libraries Association Translations Center and the European Translations Centre. Annual subscription $12 ($4 additional for foreign mailing). Single copy 60 cents. Make remittance payable to Superintendent of Documents and mail either to a Department of Commerce Field Office or to Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Address changes are to be made to Superintendent of Documents.

PURPOSE

Technical Translations announces to the public the availability and provides order information for translated scientific and technical reports, periodicals and books. Although most of the literature has been translated into English, some is in other Western European languages. The language of the translation, if other than English, is noted in the citation. Most of the material is of Soviet origin, but works from Eastern and Western European countries and from the Orient, especially Japan and Communist China, are also cited. In order to avoid duplication of effort, translations in process are also announced.

FORMAT

This journal is separated into five sections:

(1) Bibliographic citations are listed alphabetically by author or title under broad subject headings.

(2) Book Reviews of translated scientific and technical literature are listed.

(3) Translations in Progress: lists titles of translations being prepared by government and private sources. All Special Foreign Currency Science Information (SFCSI) Program translations are listed (formerly PL 480 Program).

(4) Translated Periodicals: "Periodicals Translated Cover-To-Cover" lists titles of approximately 190 technical and scientific periodicals regularly translated into English. "Tables of Contents of Recently Translated Journal Issues" are included; they are preceded by a list of the foreign titles of the journals from which they are taken.

(5) Indexes: three indexes are arranged by author, journal and translation number.

HOW TO ORDER

Each bibliographic entry contains the acronym or initials of the agency from which the translation is to be ordered; these are keyed to the complete list of ordering addresses preceding the first section. Order by the title and number given in the citation. Translations available from the Clearinghouse (CFSTI) often have alternative prices cited as hard copy (HC) and microfiche copy (MF). Make check or money order payable to agency indicated. Most of the literature is available from the Clearinghouse, the Special Libraries Association Translations center (SLA), or the European Translations Centre (ETC).

REFERENCE SERVICE

Reference services for the location and identification of translated materials, completed or in process, are provided by the Clearinghouse, Special Libraries Association Translations Center, and the European Translations Centre. Mailing addresses are listed in the pages headed "How To Order Translations."

TRANSLATORS

The work of translating the material listed is being done at many points, domestic and foreign, government and private. Among them are the Joint Publications Research Service, which translates foreign research at the request of other Federal agencies; commercial translators; publishers; and universities. The Special Foreign Currency Science Information Program, administered by the National Science Foundation, produces translations prepared in the participating countries of Israel, Poland and Yugoslavia. The Special Libraries Association is responsible for collecting translations from non-government sources, domestic and foreign; and the Clearinghouse from foreign and U.S. Government sources. Translators may have their works cited in the journal by sending the bibliographic and availability information to the Clearinghouse. A copyright release statement is required if the works are to be sold by the Clearinghouse.

U.S. DEPARTMENT OF COMMERCE
John T. Connor, Secretary

CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION
Springfield, Va. 22151
Bernard M. Fry, Director

Contents may be reprinted freely. Mention of source will be appreciated.
Use of Funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961.

special ANNOUNCEMENTS

A SINGLE INDEX FOR NEW FEDERAL R & D REPORTS

A Clearinghouse publication beginning in April 1965 provides scientists, engineers, librarians and management with a single index to new unclassified Government-sponsored technical reports.

Entitled Government-Wide Index to Federal Research and Development Reports, it will be made up from machinable index records prepared by the Atomic Energy Commission, National Aeronautics and Space Administration, Department of Defense, and the Clearinghouse.

Government-sponsored research reports included in the following agency announcement journals will be indexed in the new publication:

Nuclear Science Abstracts (AEC)

Scientific and Technical Aerospace Reports (NASA)

Technical Abstract Bulletin (Defense Documentation Center)

U.S. Government Research and Development Reports (Clearinghouse)

Technical Translations is not included in the program at this time. However, certain foreign translations cited in Technical Translations that are also announced in one of the four journals listed above will, of course, be indexed.

Appearing the 15th of each month, the Government-Wide Index will list the reports announced during the previous month.

For this project, the Clearinghouse is initially using the computer facilities of the Aerospace Research Applications Center at the University of Indiana. The journal records, in the form of punched paper tapes, magnetic tapes, and cards, are fed into the computer which merges them into a single index under the five access points of subject, corporate author, personal author, accession number and report number.

How to Order

The Government-Wide Index to Federal Research and Development Reports will be printed and sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Price is $10 for a one-year subscription (12 issues); add $2.50 for foreign mailing; single issue, $1.25. Make remittance payable to Superintendent of Documents.

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HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145 19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Avenue
New York, New York 10003

ARS
American Rocket Society, Inc.
20th & Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron & Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises, Inc.
227 West 17th Street
New York, New York 10011

CBT
Centre Belge de Traductions
Bibliotheque Royale
4 Boulevard de l'Empereur
Brussels, Belgium

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CFSTI
Clearinghouse for Federal Scientific & Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion,
Patronato Juan de la Cierva,
Serrano 150, Apartado 743
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIR
Council for Scientific and Industrial Research
The Head
Information Division
P.O. Box 395
Pretoria, Republic of South Africa

CSIRO
Commonwealth Scientific & Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

ETH
Eidgenossische Technische Hochschule
Zurich, Switzerland

ETHB
Eidgenossische Technische Hochschulbibliotek
Leonhardstrasse 33
Zurich, Switzerland

EURO-T. S.
Euro-Translation Service
20 Rue Europe
Grivegnee (Liege), Belgium

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire, England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P.O.B. 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books & Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translations
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LNEC
Laboratorio Nacional de Engenharia Civil
Ministerio das Obras Publicas
Avenida do Brasil
Lisbon 5, Portugal

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MFA/TS
Metal Finishing Abstracts Translation Services
85 Udney Park Road
Teddington, Middlesex, England

MPIK
Max-Planck-Institut fur Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NLL
National Lending Library for Science and Technology
Boston Spa, Yorkshire, England

NRCC
National Research Council, Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STC
Swedish Translation Centre
Kunglige Tekniske Hogskolans
Bibliotek
Stockholm, Sweden

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TC
Trans-Chem
Chemical Translation Service
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

TDL
Mr. John Wiley
Technical Development
Laboratories
P.O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street,
London, E.C. 4, England

TIB
Technische
Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C. 2, England

TTIS
Translation and Technical
Information Services
32 Manaton Road
London, S.E. 15, England

UBO
Royal University Library
Drammensveien 42B
Oslo, Norway

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba
Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402:

Volume 10	July - December	1963	$2.00
Volume 9	January - June	1963	$1.00
Volume 8	July - December	1962	$1.00
Volume 7	January - June	1962	$1.00
Volume 6	July - December	1961	$1.00
Volume 5	January - June	1961	$1.00
Volume 4	July - December	1960	$1.00
Volume 3	January - June	1960	$1.00
Volume 2	July - December	1959	$3.00
Volume 1	January - June	1959	$1.50

UNITED STATES DEPARTMENT OF COMMERCE
Clearinghouse for Federal Scientific and Technical Information
Formerly Office of Technical Services
Springfield, Va. 22151

TECHNICAL TRANSLATIONS

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BIBLIOGRAPHY

Library of Congress, Washington, D. C.
MONTHLY INDEX OF RUSSIAN ACCESSIONS.
Order from GPO $12.00/year

This index is a record of the publications in the Russian language issued in and outside the Soviet Union that are currently received by the Library of Congress and a group of cooperating libraries. Wherever possible, publications printed in other languages spoken in the Soviet Union are also included. It consists of three parts; Part A lists monographic literature published after 1944, with the title in the original language preceded by its English translation: Part B lists periodicals published after 1946; Part C constitutes a subject guide to both the monographs and periodical articles listed in Parts A and B.

BIBLIOGRAPHY USSR IGY WORLD DATA CENTER B1.
Jan 65, 30p NASA Technical Trans. F-92.
Order from CFSTI or ETC HC $2.00, MF $0.50
N65-13964

Trans. of Mirovoi Tsentr Dannykh MGG B1. Bibliograficheskii Ukazatel' (USSR) 1960, no. 4, pt. 1.

AGRICULTURE

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 14. 24 Nov 64 [46p] JPRS: 27513.
Order from CFSTI or ETC HC $2.00, MF $0.50
TT-64-51762

Trans. of Chung Kuo Nung Pao (Chinese People's Republic) 1964, no. 1, p. 9-12, 17-30; no. 3, p. 35-37.

SOVIET AGRICULTURE: TRANSLATIONS NO. 52.
24 Nov 64 [20p] JPRS: 27516.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-51765

Consists of 4 articles from Jul-Sep 64 issues of Russian newspapers and journals.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 154. 24 Nov 64 [29p] JPRS: 27508.
Order from CFSTI or ETC HC $2.00, MF $0.50
TT-64-51757

Trans. of Mekhanizatsiya i Elektrifikatsiya Sostsialisticheskogo Sel'skogo Khozyaistva (USSR) 1964 [v. 22] no. 4, p. 1-3, 21-24, 42; from Ekonomicheskaya Gazeta (USSR) 1964, no. 41[166] p. 14.

Bronshtein, E. V.
SIMPLIFIED METHOD FOR CALCULATION OF THE RESULTS OF BIOCHEMICAL AND AGROCHEMICAL ANALYSES (Uproshchennyi Metod Rascheta Rezul'tatov Biokhimicheskikh i Agrokhimicheskikh Analizov).
8 Sep 64 [10p] Trans. A-1463.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-19843

Trans. of Moskovskaya Sel'skokhozyaistvennaya Akademiya. Doklady (USSR) 1963, v. 84, p. 253-260.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Bykov, D. S.
CONCERNING THE SOCIALISTIC INTENSIFICATION OF AGRICULTURE (K Voprosu o Sotsialisticheskoi Intensifikatsii Sel'skogo Khozyaistva). 27 Nov 64, 11p 9refs Trans. A-1467.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-65-60987

Trans. of Moscow Univ. Vestnik. Ser[iya] 8: [Ekonomika, Filisofiya] (USSR) 1964 [v. 19] no. 5, p. 3-10.

Fateev, E.
ENERGY OF WIND-TO THE SERVICE IN AGRICULTURE
C. C. Nikiforoff, tr. 1964, 19p
Available on loan from CFSTI TT-65-61451

Trans. in manuscript of article from an unidentified source, n. d.

Ferencei, Stefan and Michna, Waldemar.
INDUSTRIALIZATION OF AGRICULTURE [AND] COOPERATIVE-STATE FARM ENTERPRISES AS AN ALTERNATIVE TO PRODUCER COOPERATIVES.
East European Agriculture, Forestry, and Food Industries: Translations No. 292. 28 Aug 64, 30p 3refs JPRS: 26190.
Order from CFSTI or ETC HC $2.00, MF $0.50
TT-64-41449

Trans. of Ekonomista (Poland) 1964, no. 3, p. 587-597; Nova Mysl (Czechoslovakia) 1964, no. 7, p. 827-834.

Gel'man, V. M. and Paeglis, M.
RESOURCES FOR INTENSIFYING LABOR [AND] NEW MACHINES: THE PFN-0.3 LOADER. USSR Industrial Development: Soviet Tractors and Agricultural Machinery no. 162. 12 Jan 65 [10p] JPRS: 28256.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-65-30119

Trans. of Mekhanizatsiya Sil's'koho Hospodarstva (USSR) 1964 [v. 15] no. 10, p. 17-18, 30-31.

Pushkareva, P. and Maksimova, T.
PLANNING NEED AND USE OF AGRICULTURAL EQUIPMENT WITH LINEAR PROGRAMMING AND COMPUTERS. 27 Nov 64 [7p] JPRS: 27562.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-51810

Trans. of Vestnik Sel'skokhozysistvennoi Nauki (USSR) 1964 [v. 9] no. 5, p. 148-150.

Animal Husbandry

APPEAL OF MEMBERS AT THE CONFERENCE OF VETERINARY AND MEDICAL SPECIALISTS IN THE KURSK OBLAST. 10 Sep 64 [4p] Trans. V-1949.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-19841

Trans. from Veterinariya (USSR) 1964, v. 41, no. 5, p. 73.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Bibikov, F. P., Borisova, A. P., Sapozhnikov, G. I., Adil'khanov, G. R., and Aliev, A. I.
CASES OF ANIMAL POISONING. 10 Sep 64 [6p] Trans. V-1951.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-19842

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 90-92.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Davydov, V. Ya.
HISTOLOGICAL CHANGES IN AFRICAN SWINE FEVER (Gistologicheskie Izmeneniya pri Afrikanskoi Chume Svinei). 26 Jan 65, 7p (figs omitted) Trans. V-1982
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-65-60903

Trans. of Vsesoyuznyi Institut Eksperimental'noi Veterinarii. Trudy (USSR) 1962, v. 29, p. 209-216.

Davydov, V. Ya.
HISTOLOGICAL CHANGES IN AFRICAN SWINE FEVER. 6p (figs omitted).
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-65-61585

Trans. of Vsesoyuznyi Institut Eksperimental'noi Veterinarii. Trudy (USSR) 1962, v. 29, p. 209-216. Another trans. is available from CFSTI or ETC HC $1.00, MF $0.50 as TT-65-60903, Trans-V-1982, 7p.

Gunyavyi, V. D.
MORE PORK WITH LESS FEED (Bol'she Svininy pri Men'shikh Zatratakh Korma). 22 Oct 64, 2p Trans. V-1968.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-19906

Trans. of Veterinariya (USSR) 1964, v. 41, no. 9, p. 11.

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TT-65-30094

Consists of 5 articles from Aug-Nov 64 issues of Communist Chinese newspapers and journals.

A separate entry has been prepared for 1 individual article.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 134. 8 Jan 65 [63p] JPRS: 28212.
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Contains abstracts of articles from Communist Chinese scientific journals, as well as translations of abstracts pertaining to Communist China published in the various series of the Soviet Referativnyi Zhurnal.

CZECHOSLOVAK PROVINCIAL PRESS: SUMMARY NO. 282. 23 Nov 64 [15p] JPRS: 27476.
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CUBA: TRANSLATIONS NO. 206. 25 Nov 64 [64p] JPRS: 27555.
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Contains translations of selected articles from various 1964 issues of Cuban newspapers and journals.

HUNGARIAN PROVINCIAL PRESS: SUMMARY NO. 336. 24 Nov 64 [23p] JPRS: 27509.
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Consists of full, partial or condensed translations or summaries based on all available Hungarian newspapers, 30 Sep-6 Oct 64.

IZVESTIYA VUZov: INSTRUMENT BUILDING, 1964, VOL. 7, NO. 5. 11 Jan 65 [237p] JPRS: 28229.
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MIDDLE EAST: TRANSLATIONS NO. 114. 24 Nov 64 [23p] JPRS: 27504.
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TT-64-51753

Contains translations selected from various foreign-language sources on all of the countries of the Middle East.

PROCESS AND APPARATUS FOR TESTING WORK-PIECES
F. H. B., tr. 17 Nov 64, 17p (figs omitted).
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Order from CFSTI or ETC HC $1.00, MF $0.50
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* The papers denoted by asterisks may be found in the Polish edition of periodical

JPRS: 28,243

HERALD OF COMMUNICATIONS

(Vestnik Svyazi)

1964, VOL. 24, NO. 10(295)

Following is a translation of selected articles from the Russian-language periodical Vestnik svyazi (Herald of Communications), Vol XXIV, No 10, published by the Ministry of Communications USSR and the Central Committee of the Communications, Motor Transport and Highway Workers Trade Union, October, 1964, Moscow. Note: Original source pages are given in the left-hand margin. Summaries within brackets are those of the translator.

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1964, VOL. 17, NO. 56.

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MEDICAL GAZETTE

(Meditsinskaya Gazeta)

1964, VOL. 27, 20 OCT

STUDIES IN SPACE FLIGHT AND PHYSIOLOGY

- USSR -

Following is a translation of three articles from the Russian-language newspaper Meditsinskaya gazeta (Medical Gazette), Moscow, 20 October 1964, page 3. Complete bibliographic information accompanies each article.

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(Liječnički Vjesnik)

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(Liječnički Vjesnik)

1964, VOL. 86, NO. 1.

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NERVOUS SYSTEM

(Nervnaya Sistema)

1964, NO. 5

STUDIES ON THE HUMAN VISUAL ANALYZER AND HEART

- USSR -

Following is a translation of four articles and the table of contents from the Russian-language periodical Nervnaya Sistema (Nervous System), No 5, Leningrad, 1964. Complete bibliographic information accompanies each article.

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NEWS OF HIGHER EDUCATIONAL INSTITUTIONS. RADIOPHYSICS SERIES

(Izvestiya Vysshikh Uchebnykh Zavedenii. Radiofizika)

1964, VOL. 7, NO. 3

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy MViSSO SSSR (News of Higher Educational Institutions, Ministry of Higher and Secondary Specialized Education, USSR) Radiofizika (Radiophysics series), Vol VII, No 3 (May-June), 1964, Gor'kiy, pp 395-578.

Note: Illustrations and author's English summary are given at the end of each article.

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NEWS OF HIGHER EDUCATIONAL INSTITUTIONS. INSTRUMENT BUILDING

(Izvestiya Vysshikh Uchebnykh Zavedenii. Priborostroenie)

1964, VOL. 7, NO. 5

Following is a complete translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy, Priborostroyeniye (News of Higher Educational Institutions: Instrument Building), Leningrad, Vol VII, No 5, 1964, pages 3-178. Names of authors and their affiliation accompany each article.

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PHYSICAL METALLURGY OF TITANIUM

(Metallovedenie Titana)

MOSCOW, 1964

[Following is the translation of seven articles from the Russian-language publication Metallovedeniye Titana (English version above), Works of the Fifth Conference on the Metallurgy, Physical Metallurgy, and Application of Titanium and its Alloys (March, 1963), Institute of Metallurgy imeni A. A. Baykov, Moscow, 1964.]

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Some Problems of Fusion Welding of Titanium and Its Alloys, by G. L. Petrov, M. D. Shchipkov, A. I. Lebedev, and A. A. Yazykov, text pages 273-282.	41

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Study of the Mutual Diffusion of Titanium with Copper and Other Metals Suitable for Brazing, by A. Ya. Shinyayev, V. V. Bondarev, and Ye. V. Sergeyeva, text pages 289-293. 63

PHYSICS OF SEMICONDUCTORS AND METALS

(Fizika Poluprovodninov i Metallov)

MOSCOW/LENINGRAD, 1964

/Following is a translation of the Russian-language book Fizika poluprovodninov i metallov (English version above), a collection of works published by the Academy of Sciences USSR, Kareliya Affiliate, Moscow-Leningrad "Nauka," 1964, pp 1-76./

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JPRS: 27,125

PROBLEMS IN WAVE-DIFFRACTION AND PROPAGATION

(Problemy Difraktsii i Rasprostraneniya Voln)

1962, VOL. 2

- USSR -

Following is a complete translation of issue No 2 of Rasprostraneniye radio-voln (Radio-Wave Propagation), within the collection Problemy difraktsii i rasprostraneniya voln (Problems of Wave-Diffraction and Propagation), edited by Z. I. Tsar'kova and published by the Leningrad State University, Leningrad, 1962, pages 1-217.

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Propagation of an Electromagnetic Pulse over a Plane Heterogeneous Track, by P. N. Vorontsov-Vel'yaminov ... 169 158-165

Investigation of the Effect of Ground-Level Obstacles on the Propagation of Radio Waves, by Gyunninen 177 166-211

Experimental Investigation of Surface Impedances in the 1.5 - 10 Megacycle Range , by V. M. Rysakov ... 223 212-218

JPRS: 26,921

RESTORATIVE PROCESSES IN THE RADIATION INJURIES

(Vosstanovitel'nye Protsessy pri Radiatsionnykh Porazheniyakh)

MOSCOW, 1964

Following is a translation of four excerpts from the Russian-language book Vosstanovitel'nyye Protsessy pri Radiatsionnykh Porazheniyakh (Restorative Processes in Radiation Injuries), edited by M. A. Krayevskiy and A. V. Lebedinskiy, published by Atomizdat, Moscow, 1964. Names of authors accompany each article.

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SCIENCE JOURNAL

(K'o Hsüeh T'ung Pao)

1964, NO. 10

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 132

This serial publication contains summaries or translations (as indicated) of selected articles on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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JPRS: 28,212

SCIENCE JOURNAL

(K'o Hsüeh T'ung Pao)

1964, NO. 10

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

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This serial publication contains summaries or translations (as indicated) of selected articles on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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WORKS OF THE CENTRAL INSTITUTE OF FORECASTING

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PROBLEMS OF SEASONAL AND MONTHLY WEATHER FORECASTS

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